

$$\textcircled{1} \quad \textcircled{x} - \cancel{8} = 12$$

$$\quad \quad \quad +8 \quad +8$$

$$\textcircled{x = 20}$$

$$\textcircled{2} \quad \boxed{2x - 5x + 11} = \textcircled{2} - 3x + \textcircled{9}$$

$$\cancel{-3x} + 11 = 11 - 3x$$

$$\quad \quad \quad +3x \quad \quad \quad +3x$$

$$\begin{array}{c} 11 \\ -11 \end{array} = \begin{array}{c} 11 \\ -11 \end{array}$$

all real
#'s

$$\textcircled{4} \left(\frac{2}{3}x - 1 \right) = \left(x + 7 \right)$$

$\begin{array}{c} -2/3x \\ \hline \end{array}$
 $\begin{array}{c} -2/3x \\ \hline \end{array}$

$$\begin{array}{r} -1 = \frac{1}{3}x + 7 \\ -7 \qquad \qquad -7 \end{array}$$

$$\frac{-8}{(\frac{1}{3})} = \frac{\frac{1}{3}x}{\frac{1}{3}}$$

③ $x = 2$

⑤ $x = 3$

⑥ $x = \text{no solution}$ — $-6 \neq 2$

⑦ $x = -5$

⑧ $x = \frac{1}{3}$

⑨ $x = \frac{3}{5}$

⑩ $x = \frac{7}{9}$

⑩ $6(2x-1)+3 = 6(2-x)-1$

$$12x - 6 + 3 = 12 - 6x - 1$$

$$\begin{array}{rcl} 12x - 3 & = & 11 - 6x \\ +6x & & +6x \end{array}$$

$$\begin{array}{rcl} 18x - 3 & = & 11 \\ +3 & & +3 \\ \hline 18x & = & 14 \\ \hline 18 & & 18 \end{array}$$

$$x = \frac{14}{18} = \frac{7}{9}$$

$$\textcircled{8} \quad 5x - 2(3-x) = -1(4-x)$$

$$5x - 6 + 2x = -4 + x$$

$$\begin{array}{r} 7x - 6 = -4 + x \\ -x \quad \quad -x \end{array}$$

$$\begin{array}{r} 6x - 6 = -4 \\ +6 \quad +6 \end{array}$$

$$\frac{6x}{6} = \frac{2}{6}$$

$$x = \frac{2}{6} = \frac{1}{3}$$

#22: -2 to the 6^{th} power

64 -64

$$(-2)^6 =$$